

GenCore version 5.1.4_p5_4578
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OM protein - protein search, using sw model

Run on: April 1, 2003, 08:45:42 ; Search time 75 Seconds
(without alignments)
797.727 Million cell updates/sec

Title: US-09-768-781-3

Perfect score: 2316

Sequence: 1 MDRVYIEPEENVPVSSLE.....RTRVENSEPPETEARQSVV 449

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 908470 seqs, 133250620 residues

Total number of hits satisfying chosen parameters: 908470

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : A Geneseq 101002.*

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19: /SID82/gcgdata/geneseq/geneseq-emb1/AA1998.DAT.*
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21: /SID82/gcgdata/geneseq/geneseq-emb1/AA2000.DAT.*
22: /SID82/gcgdata/geneseq/geneseq-emb1/AA2001.DAT.*
23: /SID82/gcgdata/geneseq/geneseq-emb1/AA2002.DAT.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	871	37.6	410	23	Novel human protei
2	653	28.2	131	23	Human polypeptide
3	607	26.2	216	22	Human peptide #94
4	607	26.2	216	22	Peptide #98 encode
5	607	26.2	216	22	Protein #88 encode
6	607	26.2	216	22	Human brain expres
7	607	26.2	216	22	Human bone marrow
8	607	26.2	216	22	Peptide #95 encode
9	607	26.2	216	22	Peptide #97 encode
10	607	26.2	216	22	Peptide #93 encode

11	607	26.2	216	23	ABG35433	Human peptide enco
12	572	24.7	125	22	AAU85530	Novel human connec
13	354	15.3	128	22	ABB25596	Protein #4595 enco
14	354	15.3	128	22	AAU58002	Human brain expres
15	174.5	7.5	86	22	ABB29870	Peptide #2521 enco
16	174.5	7.5	86	22	ABB35054	Peptide #2560 enco
17	174.5	7.5	86	22	ABB20466	Protein #2465 enco
18	174.5	7.5	86	22	AAU55869	Human brain expres
19	174.5	7.5	86	22	AAU68240	Human bone marrow
20	174.5	7.5	86	22	AAU16062	Peptide #2496 enco
21	174.5	7.5	86	22	AAU28558	Peptide #2595 enco
22	174.5	7.5	86	22	AAU03789	Peptide #2471 enco
23	174.5	7.5	86	23	ABG37776	Human peptide enco
24	164.5	7.1	129	19	AAU81517	XK related Y (XKY)
25	118.5	5.1	783	23	ABU91662	Herbicidally activ
26	117.5	5.1	264	22	AAE03438	Human gene 12 enco
27	117.5	5.1	264	23	ABG63337	Human albumin fusi
28	113	4.9	686	22	AAU29285	Human PRO polypept
29	112.5	4.9	785	23	ABU91027	Herbicidally activ
30	111	4.8	264	22	AAE03484	Human gene 12 enco
31	111	4.8	264	23	ABG63335	Human albumin fusi
32	106.5	4.6	497	20	AAU95461	L. helveticus pept
33	106	4.6	451	23	ABP39575	Staphylococcus epi
34	105.5	4.6	1584	20	AAU99300	Human BAI1 protein
35	105	4.5	751	22	AAU38408	Salmonella typhi c
36	104.5	4.5	786	22	AAU34510	E. coli cellular p
37	103.5	4.5	858	23	ABP27959	Streptococcus poly
38	102	4.4	353	22	ABG07351	Novel human diagno
39	100	4.3	800	23	ABP40810	Staphylococcus epi
40	99.5	4.3	663	22	AAU85767	Human seven-transm
41	99	4.3	408	20	AAU15788	B. burgdorferi ant
42	99	4.3	440	20	AAU13787	B. burgdorferi ant
43	99	4.3	458	18	AAU09020	Neuronal nicotinic
44	99	4.3	458	22	AAE12775	Human cholinergic
45	99	4.3	1299	22	ABB70025	Drosophila melanog

ALIGNMENTS

RESULT 1

ABU97282
ID ABU97282 standard; Protein; 410 AA.

XX ABU97282;

XX 27-JUN-2002 (first entry)

DE Novel human protein SEQ ID NO: 550.

XX Human; antianaemic; vulnery; antiinflammatory; immunomodulator;
KW antinfertility; cerebroprotective; cytostatic; rheumatic; gene therapy;
KW neuroprotective; antiparkinsonian; protein therapy; EST;
KW expressed sequence tag.

XX Homo sapiens.

XX WO200222660-A2.

PD 21-MAR-2002.

XX 10-SEP-2001; 2001WO-US26015.

XX 11-SEP-2000; 2000US-0659671.

XX (HYSE-) HYSEQ INC.

PI Tang YT, Liu C, Zhou P, Asundi V, Zhang J, Zhao QA, Ren F;

PI Xue AJ, Yang Y, Wehrman T, Drmanac RT;

XX WPI: 2002-292408/33.

DR N-PSDB; ABN32468.


```
PD 09-AUG-2001.
XX
PF 30-JAN-2001; 2001WO-US00662.
XX
PR 04-FEB-2000; 2000US-0180312.
XX
PR 26-MAY-2000; 2000US-0207456.
XX
PR 30-JUN-2000; 2000US-0608408.
XX
PR 03-AUG-2000; 2000US-0632366.
XX
PR 21-SEP-2000; 2000US-0234687.
XX
PR 27-SEP-2000; 2000US-0236359.
XX
PR 04-OCT-2000; 2000GB-0024263.
XX
PA (MOLE-) MOLECULAR DYNAMICS INC.
XX
XX Penn SG, Hanzel DK, Chen W, Rank DR;
XX WPI; 2001-496933/54.
XX
XX New spatially-addressable set of single exon nucleic acid probes,
PT useful for measuring gene expression in sample derived from human
PT breast, comprises number of single exon nucleic acid probes -
XX
XX Claim 27; SEQ ID NO 10411; 327pp + sequence listing; English.
XX
XX The invention relates to a spatially-addressable set of single exon
XX nucleic acid probes for measuring gene expression in a sample derived
XX from human breast and Bt 474 cells. The method involves contacting
XX the probes with a collection of detectably labelled nucleic acids
XX derived from mRNA of human breast, and then measuring the label
XX bound to each probe of the microarray. The probes are useful for
XX verifying the expression of regions of genomic DNA predicted to
XX encode proteins. They are useful for gene discovery, and for
XX determining predisposition and/or prognosing breast disease. Gene
XX expression analysis is useful for assessing the toxicity of chemical
XX agents on cells. The microarray of this invention presents a far greater
XX diversity of probes for measuring gene expression, with far less bias
XX than expressed sequence tag microarrays. The method is suitable for
XX rapid production of functional information from genomic sequence. The
XX present sequence is a peptide encoded by a single exon nucleic acid
XX probe of the invention.
XX Note: The sequence data for this patent did not form part of the
XX printed specification, but was obtained in electronic format directly
XX from WIPO at ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 216 AA;
XX
XX Query Match 26.2%; Score 607; DB 22; Length 216;
XX Best Local Similarity 55.1%; Pred. No. 2.9e-62;
XX Matches 109; Conservative 42; Mismatches 47; Indels 0; Gaps 0;
XX
XX QY 213 TYGATLCNMLAIQKYDDYKIRLGPVLCITIMRTLEITSRLILVLFSA TLKXVPF 272
XX DB 1 TYGAIRCNI LAIQSNDDTTIKLPPIEFVVMWFLEISRVTLAFFIASLKLKSLPV 60
XX
XX QY 273 LVLNFLIILFFPFWKRSQAMPNNIEKNFSRVGTLLVLSVTLYAGINFSWSALQL 332
XX DB 61 LLIIFYVSLAPLWLEFWKSGAHLPGNKENNSNMVGTVMFLITLLIYAINFSWSAVKL 120
XX
XX QY 333 RLARDLVKQNGHMGHLSYRVLVENVIMVLVFPKGVKVLNYSCHSLIALQLIAYL 392
XX DB 121 QLSDDKIIDGRQWRHRLHYSFQPLENVIMLVFRFGGKTLNCCDSLIAVQLIISYL 180
XX
XX QY 393 ISIDFMILLFQYLHPLRS 410
XX DB 181 LATGFMLLFYQYLYPWQS 198
XX
XX RESULT 4
XX ABB32592
XX ID ABB32592 standard; Peptide; 216 AA.
XX
XX AC ABB32592;
XX
XX DT 23-JAN-2002 (first entry)
XX
XX 01-FEB-2002 (first entry)
XX
XX Peptide #98 encoded by human foetal liver single exon nucleic acid probe.
XX Human; foetal liver; gene expression; single exon nucleic acid probe.
XX Homo sapiens.
XX WO200157277-A2.
XX
XX 09-AUG-2001.
XX
XX 30-JAN-2001; 2001WO-US00669.
XX
XX 04-FEB-2000; 2000US-0180312.
XX
XX 26-MAY-2000; 2000US-0207456.
XX
XX 30-JUN-2000; 2000US-0608408.
XX
XX 03-AUG-2000; 2000US-0632366.
XX
XX 21-SEP-2000; 2000US-0234687.
XX
XX 27-SEP-2000; 2000US-0236359.
XX
XX 04-OCT-2000; 2000GB-0024263.
XX
XX (MOLE-) MOLECULAR DYNAMICS INC.
XX
XX Penn SG, Hanzel DK, Chen W, Rank DR;
XX WPI; 2001-483447/52.
XX
XX Human genome-derived single exon nucleic acid probes useful for
XX analyzing gene expression in human fetal liver -
XX
XX Claim 27; SEQ ID NO 25227; 639pp + sequence listing; English.
XX
XX The invention relates to a single exon nucleic acid probe for
XX measuring human gene expression in a sample derived from human foetal
XX liver. The single exon nucleic acid probes may be used for predicting,
XX measuring and displaying gene expression in samples derived from human
XX fetal liver. The present sequence is a peptide encoded by a single exon
XX nucleic acid probe of the invention.
XX Note: The sequence data for this patent did not form part of the
XX printed specification, but was obtained in electronic format directly
XX from WIPO at ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 216 AA;
XX
XX Query Match 26.2%; Score 607; DB 22; Length 216;
XX Best Local Similarity 55.1%; Pred. No. 2.9e-62;
XX Matches 109; Conservative 42; Mismatches 47; Indels 0; Gaps 0;
XX
XX QY 213 TYGATLCNMLAIQKYDDYKIRLGPVLCITIMRTLEITSRLILVLFSA TLKXVPF 272
XX DB 1 TYGAIRCNI LAIQSNDDTTIKLPPIEFVVMWFLEISRVTLAFFIASLKLKSLPV 60
XX
XX QY 273 LVLNFLIILFFPFWKRSQAMPNNIEKNFSRVGTLLVLSVTLYAGINFSWSALQL 332
XX DB 61 LLIIFYVSLAPLWLEFWKSGAHLPGNKENNSNMVGTVMFLITLLIYAINFSWSAVKL 120
XX
XX QY 333 RLARDLVKQNGHMGHLSYRVLVENVIMVLVFPKGVKVLNYSCHSLIALQLIAYL 392
XX DB 121 QLSDDKIIDGRQWRHRLHYSFQPLENVIMLVFRFGGKTLNCCDSLIAVQLIISYL 180
XX
XX QY 393 ISIDFMILLFQYLHPLRS 410
XX DB 181 LATGFMLLFYQYLYPWQS 198
XX
XX RESULT 5
XX ABB18089
XX ID ABB18089 standard; Protein; 216 AA.
XX
XX AC ABB18089;
XX
XX DT 23-JAN-2002 (first entry)
```

```
XX DE Protein #88 encoded by probe for measuring heart cell gene expression.
XX KW Human; gene expression; heart; microarray; vascular system;
XX KW cardiovascular disease; hypertension; cardiac arrhythmia;
XX KW congenital heart disease.
XX OS Homo sapiens.
XX PN WO200157274-A2.
XX PD 09-AUG-2001.
XX PF 30-JAN-2001; 2001WO-US00666.
XX PR 04-FEB-2000; 2000US-0180312.
XX PR 26-MAY-2000; 2000US-0207456.
XX PR 30-JUN-2000; 2000US-0608408.
XX PR 03-AUG-2000; 2000US-0632366.
XX PR 21-SEP-2000; 2000US-0234687.
XX PR 27-SEP-2000; 2000US-0236359.
XX PR 04-OCT-2000; 2000GB-0024263.
XX PA (MOLE-) MOLECULAR DYNAMICS INC.
XX PI Penn SG, Hanzel DK, Chen W, Rank DR;
XX WPI; 2001-48899/53.
XX PT Single exon nucleic acid probes for analyzing gene expression in human
XX PT hearts -
XX PS Claim 15; SEQ ID No 19859; 530pp; English.
XX CC The present invention relates to single exon nucleic acid probes for
XX CC measuring human gene expression in a sample derived from human heart (see
XX CC AB21535-ABA41305). The present sequence is a protein encoded by one such
XX CC probe. The probes may be used for predicting, measuring and displaying
XX CC gene expression in samples derived from the human heart via microarrays.
XX CC By measuring gene expression, the probes are useful for predicting,
XX CC diagnosing, grading, staging, monitoring and prognosing diseases of the
XX CC human heart and vascular system e.g. cardiovascular disease,
XX CC hypertension, cardiac arrhythmias and congenital heart disease.
XX CC Note: The sequence data for this patent did not form part of the printed
XX CC specification, but was obtained in electronic format directly from WIPO
XX CC at ftp.wipo.int/pub/published_pct_sequences.
XX SQ Sequence 216 AA;
Query Match 26.2%; Score 607; DB 22; Length 216;
Best Local Similarity 55.1%; Pred. No. 2.9e-62;
Matches 109; Conservative 42; Mismatches 47; Indels 0; Gaps 0;
QY 213 TYGATLCNNLAIQIKYDDYKIRGLPGLVLCITITWRTLEITSRLILVLSATLKLKAVPF 272
DB 1 TYGATRCNLAIQISNDTITKLPPIEFVCVWVRFEIVSRVVTIAFFIASLKLKSLPV 60
QY 273 LVNLFILIFEPWIKPWRSGAQMNNIEKNFSRVGTLVLVISVTILYAGINFSCWSALQL 332
DB 61 LLTIYFVSLAPWLEFWKSGAHLPGKNENNSNMVGTVMFLITLLYAAINFSCWSAVKL 120
QY 333 RLADRLVDKQNGWGHMGLHYSVRLVENIMLVFPGVGVKLVNCHSLIALQLIAYL 392
DB 121 QLSDDKIIDGROGWGHRILHYSFQPLENIMILVFRFGGKTLNCCDSLIAVQLIISYL 180
QY 393 ISIDFMLFFQYLHPLRS 410
DB 181 LATGFMLFFQYLYPWQS 198
RESULT 6
AAM53421
ID AAM53421 standard; Protein; 216 AA.
```

```
XX AC AAM53421;
XX DT 05-NOV-2001 (first entry)
XX DE Human brain expressed single exon probe encoded protein SEQ ID NO: 25526.
XX KW Human; brain expressed exon; gene expression analysis; probe;
XX KW microarray; Alzheimer's disease; multiple sclerosis; schizophrenia;
XX KW epilepsy; cancer.
XX OS Homo sapiens.
XX PN WO200157275-A2.
XX PD 09-AUG-2001.
XX PF 30-JAN-2001; 2001WO-US00667.
XX PR 04-FEB-2000; 2000US-0180312.
XX PR 26-MAY-2000; 2000US-0207456.
XX PR 30-JUN-2000; 2000US-0608408.
XX PR 03-AUG-2000; 2000US-0632366.
XX PR 21-SEP-2000; 2000US-0234687.
XX PR 27-SEP-2000; 2000US-0236359.
XX PR 04-OCT-2000; 2000GB-0024263.
XX PA (MOLE-) MOLECULAR DYNAMICS INC.
XX PI Penn SG, Hanzel DK, Chen W, Rank DR;
XX WPI; 2001-483446/52.
XX PT Single exon nucleic acid probes for analyzing gene expression in human
XX PT brains -
XX PS Example 4; SEQ ID NO: 25526; 650pp + Sequence Listing; English.
XX CC The present invention provides a number of single exon nucleic acid
XX CC probes which are derived from genomic sequences expressed in the human
XX CC brain. They can be used to measure gene expression in brain cell samples,
XX CC which may enable the diagnosis and improved treatment of nervous system
XX CC diseases such as Alzheimer's disease, multiple sclerosis, schizophrenia,
XX CC epilepsy and cancers. The present sequence is a protein encoded by one of
XX CC the probes of the invention.
XX SQ Sequence 216 AA;
Query Match 26.2%; Score 607; DB 22; Length 216;
Best Local Similarity 55.1%; Pred. No. 2.9e-62;
Matches 109; Conservative 42; Mismatches 47; Indels 0; Gaps 0;
QY 213 TYGATLCNNLAIQIKYDDYKIRGLPGLVLCITITWRTLEITSRLILVLSATLKLKAVPF 272
DB 1 TYGATRCNLAIQISNDTITKLPPIEFVCVWVRFEIVSRVVTIAFFIASLKLKSLPV 60
QY 273 LVNLFILIFEPWIKPWRSGAQMNNIEKNFSRVGTLVLVISVTILYAGINFSCWSALQL 332
DB 61 LLTIYFVSLAPWLEFWKSGAHLPGKNENNSNMVGTVMFLITLLYAAINFSCWSAVKL 120
QY 333 RLADRLVDKQNGWGHMGLHYSVRLVENIMLVFPGVGVKLVNCHSLIALQLIAYL 392
DB 121 QLSDDKIIDGROGWGHRILHYSFQPLENIMILVFRFGGKTLNCCDSLIAVQLIISYL 180
QY 393 ISIDFMLFFQYLHPLRS 410
DB 181 LATGFMLFFQYLYPWQS 198
RESULT 7
AAM65799
ID AAM65799 standard; Protein; 216 AA.
```

AC AAM65799;
XX
XX DT 06-NOV-2001 (first entry)
XX
XX DE Human bone marrow expressed probe encoded protein SEQ ID NO: 26105.
XX
XX KW Human; bone marrow expressed exon; gene expression analysis; probe;
XX KW microarray; cancer; leukaemia; lymphoma; myeloma.
XX
XX OS Homo sapiens.
XX
XX PN WO200157276-A2.
XX
XX PD 09-AUG-2001.
XX
XX PF 30-JAN-2001; 2001WO-US00668.
XX
XX PR 04-FEB-2000; 2000US-0180312.
XX PR 26-MAY-2000; 2000US-0207456.
XX PR 30-JUN-2000; 2000US-0608408.
XX PR 03-AUG-2000; 2000US-0632366.
XX PR 21-SEP-2000; 2000US-0234687.
XX PR 27-SEP-2000; 2000US-0236359.
XX PR 04-OCT-2000; 2000US-024263.
XX
XX PA (MOLE-) MOLECULAR DYNAMICS INC.
XX
XX PI Penn SG, Hanzel DK, Chen W, Rank DR;
XX
XX DR WPI; 2001-488900/53.
XX
XX PT Human genome-derived single exon nucleic acid probes useful for
XX PT analyzing gene expression in human bone marrow -
XX
XX PS Example 4; SEQ ID NO: 26105; 658pp + Sequence Listing; English.
XX
XX CC The present invention provides a number of single exon nucleic acid
XX CC probes which are derived from genomic sequences expressed in the human
XX CC bone marrow. They can be used to measure gene expression in bone marrow
XX CC samples, which may enable the improved diagnosis and treatment of cancers
XX CC such as lymphoma, leukaemia and myeloma. The present sequence is a
XX CC protein encoded by one of the probes of the invention.
XX
XX SQ Sequence 216 AA;

Query Match 26.2%; Score 607; DB 22; Length 216;
Best Local Similarity 55.1%; Pred. No. 2.9e-62;
Matches 109; Conservative 42; Mismatches 47; Indels 0; Gaps 0;

QY 213 TYGATLCNMLAIQIKYDDYKIRGLPGLVLCITWRTLEITSRLILVLFSA TLKLVKAVPF 272
Db 1 TYGAIRCMLAIQISNDTITKLPPIEFVVMWRPFLVISRVVTLAFIATSLKSLPV 60
QY 273 LVLNPLIILFPFWIKFWSGACMPNNIEKFSRVGTLLVVLISVTILYAGINFSCHSAVL 332
Db 61 LLIIYFVSLAPWLEFWKSGAHLPGKNKNSNMVGTVMFLITILLYAAINFSCHSAVL 120
QY 333 RLADRLVDKQNGWGHMGLHYSVRVLENVIMLVKFGVKVLLNYCHSLIALQILIIAYL 392
Db 121 QLSDDKIIDGRQWRGHRILHYSFQPLENVIMLVFRFGGKTLNCCDSLLIAVQLIIISYL 180
QY 393 ISIDFMLLFFOYLHPLRS 410
Db 181 LATGFMLLFYQYLYPWQS 198

RESULT 8
AAM13661
ID AAM13661 standard; Protein; 216 AA.
XX
XX AC AAM13661;
XX
XX DT 12-OCT-2001 (first entry)

XX
XX DE Peptide #95 encoded by probe for measuring cervical gene expression.
XX
XX KW Probe; human; microarray; gene expression; cervical epithelial cell;
XX KW cervical cancer.
XX
XX OS Homo sapiens.
XX
XX PN WO200157278-A2.
XX
XX PD 09-AUG-2001.
XX
XX PF 30-JAN-2001; 2001WO-US00670.
XX
XX PR 04-FEB-2000; 2000US-0180312.
XX PR 26-MAY-2000; 2000US-0207456.
XX PR 30-JUN-2000; 2000US-0608408.
XX PR 03-AUG-2000; 2000US-0632366.
XX PR 21-SEP-2000; 2000US-0234687.
XX PR 27-SEP-2000; 2000US-0236359.
XX PR 04-OCT-2000; 2000US-024263.
XX
XX PA (MOLE-) MOLECULAR DYNAMICS INC.
XX
XX PI Penn SG, Hanzel DK, Chen W, Rank DR;
XX
XX DR WPI; 2001-488901/53.
XX
XX PT Human genome-derived single exon nucleic acid probes useful for
XX PT analyzing gene expression in human cervical epithelial cells -
XX
XX PS Claim 27; SEQ ID No 18487; 487pp; English.
XX
XX CC The present invention relates to human single exon nucleic acid probes
XX CC (SENPs: see AAI10068-AA128459). The present sequence is a peptide encoded
XX CC by one such probe. The SENPs are derived from human HeLa cells. The SENPs
XX CC can be used to produce a single exon microarray, which can be used for
XX CC measuring human gene expression in a sample derived from human cervical
XX CC epithelial cells. By measuring gene expression, the probes are therefore
XX CC useful in grading and/or staging of diseases of the cervix, notably
XX CC cervical cancer.
XX CC Note: The sequence data for this patent did not form part of the printed
XX CC specification, but was obtained in electronic format directly from WIPO
XX CC at ftp.wipo.int/pub/published_pct_sequences.
XX
XX SQ Sequence 216 AA;

Query Match 26.2%; Score 607; DB 22; Length 216;
Best Local Similarity 55.1%; Pred. No. 2.9e-62;
Matches 109; Conservative 42; Mismatches 47; Indels 0; Gaps 0;

QY 213 TYGATLCNMLAIQIKYDDYKIRGLPGLVLCITWRTLEITSRLILVLFSA TLKLVKAVPF 272
Db 1 TYGAIRCMLAIQISNDTITKLPPIEFVVMWRPFLVISRVVTLAFIATSLKSLPV 60
QY 273 LVLNPLIILFPFWIKFWSGACMPNNIEKFSRVGTLLVVLISVTILYAGINFSCHSAVL 332
Db 61 LLIIYFVSLAPWLEFWKSGAHLPGKNKNSNMVGTVMFLITILLYAAINFSCHSAVL 120
QY 333 RLADRLVDKQNGWGHMGLHYSVRVLENVIMLVKFGVKVLLNYCHSLIALQILIIAYL 392
Db 121 QLSDDKIIDGRQWRGHRILHYSFQPLENVIMLVFRFGGKTLNCCDSLLIAVQLIIISYL 180
QY 393 ISIDFMLLFFOYLHPLRS 410
Db 181 LATGFMLLFYQYLYPWQS 198

RESULT 9
AAM26060
ID AAM26060 standard; Protein; 216 AA.
XX
XX AC AAM26060;

XX 17-OCT-2001 (first entry)
 XX Peptide #93 encoded by probe for measuring placental gene expression.
 DE Probe; microarray; human; placenta; antenatal diagnosis;
 KW genetic disorder.
 XX Homo sapiens.
 OS WO200157272-A2.
 PN 09-AUG-2001.
 PD 29-JAN-2001; 2001WO-US00663.
 XX 04-FEB-2000; 2000US-0180312.
 XX 26-MAY-2000; 2000US-0207456.
 PR 30-JUN-2000; 2000US-0608408.
 PR 03-AUG-2000; 2000US-0632366.
 PR 21-SEP-2000; 2000US-0234687.
 PR 27-SEP-2000; 2000US-0236359.
 PR 04-OCT-2000; 2000GB-0024263.
 XX (MOLE-) MOLECULAR DYNAMICS INC.
 PA Penn SG, Hanzel DK, Chen W, Rank DR;
 XX WPI; 2001-488897/53.
 PI Human genome-derived single exon nucleic acid probes useful for
 PT analyzing gene expression in human placenta -
 XX Claim 27; SEQ ID No 26329; 654pp; English.
 XX The present invention relates to single exon nucleic acid probes (SENPs;
 CC see AAI1315-AAI57546). The present sequence is a peptide encoded by one
 CC such probe. The probes are useful for producing a microarray for
 CC predicting, measuring and displaying gene expression in samples derived
 CC from human placenta. The probes are useful for antenatal diagnosis of
 CC human genetic disorders.
 XX Sequence 216 AA;
 Query Match 26.2%; Score 607; DB 22; Length 216;
 Best Local Similarity 55.1%; Pred. No. 2.9e-62;
 Matches 109; Conservative 42; Mismatches 47; Indels 0; Gaps 0;
 QY 213 TYGATLCNMALAIQIKYDDYKIRLPLEVLCITITWRTLEITSRLILVLSATLKLKAVPF 272
 DB 1 TYGAIRCNILAIQISNDDTTIKLPPIEFVVMWRFLEISRVVTLAFFIASLKLKSLPV 60
 QY 273 LVNLFILFEPWIKFWRSGAOMPNNIEKNFRSGVGLVVLISVTILYAGINFSCWSALQL 332
 DB 61 LUITYFVSLAPLWLFKSGAHLPGKNNNNMVGTVLMFLITLLYAAINFSCWSAVKL 120
 QY 333 RLADRLVDKQGWGHHGLHYSVRLVENVIMLVKFFGKVLNLYCHSLIALQLIAYL 392
 DB 121 QLSDDKIIDGRQWRGHRILHYSFQPLENVIMLVKFFGKTLNCCDSLIAVQLIISYL 180
 QY 393 ISIDFMLFFQYLHLPLRS 410
 DB 181 LATGFMLFYQYLYPQWS 198
 RESULT 10
 ID AAM01411
 XX AAM01411 standard; Protein; 216 AA.
 AC AAM01411;
 XX 09-OCT-2001 (first entry)
 XX Peptide #93 encoded by probe for measuring human breast gene expression.
 DE Probe; human; breast disease; breast cancer; development disorder;
 KW inflammatory disease; proliferative breast disease; non-carcinoma tumour.
 XX Homo sapiens.
 OS WO200157270-A2.
 PN 09-AUG-2001.
 PD 29-JAN-2001; 2001WO-US00661.
 XX 04-FEB-2000; 2000US-0180312.
 XX 26-MAY-2000; 2000US-0207456.
 PR 30-JUN-2000; 2000US-0608408.
 PR 03-AUG-2000; 2000US-0632366.
 PR 21-SEP-2000; 2000US-0234687.
 PR 27-SEP-2000; 2000US-0236359.
 PR 04-OCT-2000; 2000GB-0024263.
 XX (MOLE-) MOLECULAR DYNAMICS INC.
 PA Penn SG, Hanzel DK, Chen W, Rank DR;
 XX WPI; 2001-476286/51.
 PI Novel single exon nucleic acid probe used to measuring gene expression
 PT in a human breast -
 XX Claim 27; SEQ ID No 10151; 322pp; English.
 XX The present invention relates to novel single exon nucleic acid probes
 CC (see AAI00010-AAI10067). The present sequence is a peptide encoded by one
 CC such probe. The probes are useful for measuring human gene expression in
 CC a human breast sample, where the probe hybridises at high stringency to a
 CC nucleic acid expressed in the human breast. The probes are useful for
 CC predicting, diagnosing, grading, staging, monitoring and prognosing
 CC diseases of the human breast, particularly those diseases with polygenic
 CC aetiology. The diseases include: breast cancer, disorders of development,
 CC inflammatory diseases of the breast, fibrocystic changes, proliferative
 CC breast disease and non-carcinoma tumours.
 CC Note: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequences.
 XX Sequence 216 AA;
 Query Match 26.2%; Score 607; DB 22; Length 216;
 Best Local Similarity 55.1%; Pred. No. 2.9e-62;
 Matches 109; Conservative 42; Mismatches 47; Indels 0; Gaps 0;
 QY 213 TYGATLCNMALAIQIKYDDYKIRLPLEVLCITITWRTLEITSRLILVLSATLKLKAVPF 272
 DB 1 TYGAIRCNILAIQISNDDTTIKLPPIEFVVMWRFLEISRVVTLAFFIASLKLKSLPV 60
 QY 273 LVNLFILFEPWIKFWRSGAOMPNNIEKNFRSGVGLVVLISVTILYAGINFSCWSALQL 332
 DB 61 LUITYFVSLAPLWLFKSGAHLPGKNNNNMVGTVLMFLITLLYAAINFSCWSAVKL 120
 QY 333 RLADRLVDKQGWGHHGLHYSVRLVENVIMLVKFFGKVLNLYCHSLIALQLIAYL 392
 DB 121 QLSDDKIIDGRQWRGHRILHYSFQPLENVIMLVKFFGKTLNCCDSLIAVQLIISYL 180
 QY 393 ISIDFMLFFQYLHLPLRS 410
 DB 181 LATGFMLFYQYLYPQWS 198
 RESULT 11
 ID ABG35433
 XX ABG35433 standard; Peptide; 216 AA.

AC ABG35433;
 XX 19-AUG-2002 (first entry)
 DE Human peptide encoded by genome-derived single exon probe SEQ ID 25098.
 XX Human; single exon probe; asthma; lung cancer; COPD; ILD;
 KW chronic obstructive pulmonary disease; interstitial lung disease;
 KW familial idiopathic pulmonary fibrosis; neurofibromatosis;
 KW tuberous sclerosis; Gaucher's disease; Niemann-Pick disease;
 KW Hermansky-Pudlak syndrome; sarcoidosis; pulmonary haemosiderosis;
 KW pulmonary histiocytosis; lymphangioleiomyomatosis; Karagener syndrome;
 KW pulmonary alveolar proteinosis; fibrocystic pulmonary dysplasia;
 KW primary ciliary dyskinesia; pulmonary hypertension;
 KW hyaline membrane disease.
 XX Homo sapiens.
 OS
 XX WO200186003-A2.
 PN 15-NOV-2001.
 PD
 PF 30-JAN-2001; 2001WO-US00665.
 PR 04-FEB-2000; 2000US-180312P.
 PR 26-MAY-2000; 2000US-207456P.
 PR 30-JUN-2000; 2000US-0608408.
 PR 03-AUG-2000; 2000US-0632366.
 PR 21-SEP-2000; 2000US-234687P.
 PR 27-SEP-2000; 2000US-236359P.
 PR 04-OCT-2000; 2000GB-0024263.
 XX (MOLE-) MOLECULAR DYNAMICS INC.
 PA
 PI Penn SG, Hanzel DK, Chen W, Rank DR;
 XX WPI; 2002-114183/15.
 DR
 XX Spatially-addressable set of single exon nucleic acid probes, used to
 PT measure gene expression in human lung samples -
 FT
 XX Claim 27; SEQ ID No 25098; 634pp; English.
 XX
 CC The invention relates to a spatially-addressable set of single exon
 CC nucleic acid probes for measuring gene expression in a sample derived
 CC from human lung comprising single exon nucleic acid probes having one of
 CC 12614 nucleic acid sequences mentioned in the specification, or their
 CC complements or the 12387 open reading frames derived from the 12614
 CC probes. Also included are a microarray comprising the novel set of
 CC probes; the novel set of probes which hybridise at high stringency to a
 CC nucleic acid expressed in the human lung; measuring gene expression in a
 CC sample derived from human lung, comprising (a) contacting the array with
 CC a collection of detectably labeled nucleic acids derived from human lung
 CC mRNA, and (b) measuring the label detectably bound to each probe of
 CC the array; identifying exons in a eukaryotic genome, comprising
 CC (a) algorithmically predicting at least one exon from genomic sequences
 CC of the eukaryote; and (b) detecting specific hybridisation of detectably
 CC labeled nucleic acids from eukaryote lung mRNA, to a single exon probe,
 CC having a fragment identical to the predicted exon, the probe is included
 CC in the above mentioned microarray; assigning exons to a single gene,
 CC comprising (a) identifying exons from genomic sequence by the method
 CC above and (b) measuring the expression of each of the exons in several
 CC tissues and/or cell types using hybridisation to a single exon
 CC microarrays having a probe with the exon, where a common pattern of
 CC expression of the exons in the tissues and/or cell types indicates that
 CC the exons should be assigned to a single gene; a peptide comprising one
 CC of 12011 sequences, mentioned in the specification, or encoded by the
 CC probes/open reading frames (ORF). The probes are used for gene
 CC expression analysis, and for identifying exons in a gene, particularly
 CC using human lung derived mRNA and for the study of lung diseases
 CC such as asthma, lung cancer, chronic obstructive pulmonary disease
 CC (COPD), interstitial lung disease (ILD), familial idiopathic pulmonary
 CC fibrosis, neurofibromatosis, tuberous sclerosis, Gaucher's disease,

CC Niemann-Pick disease, Hermansky-Pudlak syndrome, sarcoidosis, pulmonary
 CC haemosiderosis, pulmonary histiocytosis, lymphangioleiomyomatosis,
 CC pulmonary alveolar proteinosis, Karagener syndrome, fibrocystic
 CC pulmonary dysplasia, primary ciliary dyskinesia, pulmonary hypertension
 CC and hyaline membrane disease. The present sequence is a peptide/protein
 CC encoded by a single exon probe of the invention.
 CC Note: The sequence data for this patent did not form part
 CC of the printed specification, but was obtained in electronic
 CC format directly from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.
 XX
 SQ Sequence 216 AA;
 Query Match 26.2%; Score 607; DB 23; Length 216;
 Best Local Similarity 55.1%; Pred. No. 2.9e-62;
 Matches 109; Conservative 42; Mismatches 47; Indels 0; Gaps 0;
 QY 213 TYGATLCNMLAIQIKYDDYKIRLGPVLVCITITWRTLETSRLILVLFSATUKLXAVPF 272
 DB 1 TYGAIRCNLAIQISNDTTIKLPPIEFPCVVMRPLEVISRVVTLAFTIASLKSLPV 60
 QY 273 LVNLFILITLFEPIKIFWRSQAQMPNNIEKNFSRVGTLAVLISVTILYAGINFSCWSALQL 332
 DB 61 LLIIYFVSLAPWLEFWKSGAHLPGNKNNMNVGTVMLEFLITLLYAAINFSCWSAVKL 120
 QY 333 RLADRDLDVKGQWGHMGLHYSVRLVENVIMLVKFFGVKVLNLYCHSLIALQLIIAYL 392
 DB 121 QLSDDKIIDGRQWGHRLHYSFQPLENVIMLVFFFGKTLNCCDSLIIAVQLIISYL 180
 QY 393 ISIDFMLLFFQYLHPLRS 410
 DB 181 LATGFMLLFYQYLYPWS 198
 RESULT 12
 AAU86530
 ID AAU86530 standard; Protein; 125 AA.
 AC AAU86530;
 XX
 XX 21-MAY-2002 (first entry)
 DE Novel human connective tissue related polypeptide #96.
 KW Human; connective tissue related disorder; cancer; cytostatic.
 OS Homo sapiens.
 XX WO200155343-A1.
 XX
 XX 02-AUG-2001.
 XX
 XX 17-JAN-2001; 2001WO-US01322.
 PR 31-JAN-2000; 2000US-0179065.
 PR 04-FEB-2000; 2000US-0180628.
 PR 02-MAR-2000; 2000US-0184664.
 PR 16-MAR-2000; 2000US-0186350.
 PR 17-MAR-2000; 2000US-0189874.
 PR 18-APR-2000; 2000US-0190076.
 PR 19-MAY-2000; 2000US-0198123.
 PR 07-JUN-2000; 2000US-0205515.
 PR 28-JUN-2000; 2000US-0209467.
 PR 30-JUN-2000; 2000US-0214886.
 PR 07-JUL-2000; 2000US-0215135.
 PR 07-JUL-2000; 2000US-0216647.
 PR 11-JUL-2000; 2000US-0216880.
 PR 11-JUL-2000; 2000US-0217487.
 PR 11-JUL-2000; 2000US-0217496.
 PR 14-JUL-2000; 2000US-0218290.
 PR 26-JUL-2000; 2000US-0220963.
 PR 26-JUL-2000; 2000US-0220964.
 PR 14-AUG-2000; 2000US-0224518.

PR 14-AUG-2000; 2000US-0224519.
PR 14-AUG-2000; 2000US-0225213.
PR 14-AUG-2000; 2000US-0225214.
PR 14-AUG-2000; 2000US-0225266.
PR 14-AUG-2000; 2000US-0225267.
PR 14-AUG-2000; 2000US-0225268.
PR 14-AUG-2000; 2000US-0225270.
PR 14-AUG-2000; 2000US-0225277.
PR 14-AUG-2000; 2000US-0225447.
PR 14-AUG-2000; 2000US-0225757.
PR 14-AUG-2000; 2000US-0225758.
PR 14-AUG-2000; 2000US-0225759.
PR 18-AUG-2000; 2000US-0226279.
PR 22-AUG-2000; 2000US-0226681.
PR 22-AUG-2000; 2000US-0226868.
PR 22-AUG-2000; 2000US-0227182.
PR 23-AUG-2000; 2000US-0227009.
PR 30-AUG-2000; 2000US-0228924.
PR 01-SEP-2000; 2000US-0229287.
PR 01-SEP-2000; 2000US-0229343.
PR 01-SEP-2000; 2000US-0229344.
PR 01-SEP-2000; 2000US-0229345.
PR 05-SEP-2000; 2000US-0229509.
PR 05-SEP-2000; 2000US-0229513.
PR 06-SEP-2000; 2000US-0230437.
PR 06-SEP-2000; 2000US-0230438.
PR 08-SEP-2000; 2000US-0231242.
PR 08-SEP-2000; 2000US-0231243.
PR 08-SEP-2000; 2000US-0231244.
PR 08-SEP-2000; 2000US-0231413.
PR 08-SEP-2000; 2000US-0231414.
PR 08-SEP-2000; 2000US-0232080.
PR 08-SEP-2000; 2000US-0232081.
PR 12-SEP-2000; 2000US-0231968.
PR 14-SEP-2000; 2000US-0232397.
PR 14-SEP-2000; 2000US-0232398.
PR 14-SEP-2000; 2000US-0232399.
PR 14-SEP-2000; 2000US-0232400.
PR 14-SEP-2000; 2000US-0232401.
PR 14-SEP-2000; 2000US-0233063.
PR 14-SEP-2000; 2000US-0233064.
PR 14-SEP-2000; 2000US-0233065.
PR 21-SEP-2000; 2000US-0234223.
PR 21-SEP-2000; 2000US-0234274.
PR 25-SEP-2000; 2000US-0234997.
PR 25-SEP-2000; 2000US-0234998.
PR 26-SEP-2000; 2000US-0235484.
PR 27-SEP-2000; 2000US-0235834.
PR 27-SEP-2000; 2000US-0235836.
PR 29-SEP-2000; 2000US-0236327.
PR 29-SEP-2000; 2000US-0236367.
PR 29-SEP-2000; 2000US-0236368.
PR 29-SEP-2000; 2000US-0236369.
PR 29-SEP-2000; 2000US-0236370.
PR 02-OCT-2000; 2000US-0236802.
PR 02-OCT-2000; 2000US-0237037.
PR 02-OCT-2000; 2000US-0237038.
PR 02-OCT-2000; 2000US-0237039.
PR 13-OCT-2000; 2000US-0237040.
PR 13-OCT-2000; 2000US-0239935.
PR 13-OCT-2000; 2000US-0239937.
PR 20-OCT-2000; 2000US-0240960.
PR 20-OCT-2000; 2000US-0241221.
PR 20-OCT-2000; 2000US-0241785.
PR 20-OCT-2000; 2000US-0241786.
PR 20-OCT-2000; 2000US-0241787.
PR 20-OCT-2000; 2000US-0241808.
PR 20-OCT-2000; 2000US-0241809.
PR 20-OCT-2000; 2000US-0241826.
PR 01-NOV-2000; 2000US-0244617.
PR 08-NOV-2000; 2000US-0246474.
PR 08-NOV-2000; 2000US-0246475.
PR 08-NOV-2000; 2000US-0246476.
PR 08-NOV-2000; 2000US-0246477.
PR 08-NOV-2000; 2000US-0246478.
PR 08-NOV-2000; 2000US-0246523.
PR 08-NOV-2000; 2000US-0246524.
PR 08-NOV-2000; 2000US-0246525.
PR 08-NOV-2000; 2000US-0246526.
PR 08-NOV-2000; 2000US-0246527.
PR 08-NOV-2000; 2000US-0246528.
PR 08-NOV-2000; 2000US-0246532.
PR 08-NOV-2000; 2000US-0246609.
PR 08-NOV-2000; 2000US-0246610.
PR 08-NOV-2000; 2000US-0246611.
PR 08-NOV-2000; 2000US-0246613.
PR 17-NOV-2000; 2000US-0249207.
PR 17-NOV-2000; 2000US-0249208.
PR 17-NOV-2000; 2000US-0249209.
PR 17-NOV-2000; 2000US-0249210.
PR 17-NOV-2000; 2000US-0249211.
PR 17-NOV-2000; 2000US-0249212.
PR 17-NOV-2000; 2000US-0249213.
PR 17-NOV-2000; 2000US-0249214.
PR 17-NOV-2000; 2000US-0249215.
PR 17-NOV-2000; 2000US-0249216.
PR 17-NOV-2000; 2000US-0249217.
PR 17-NOV-2000; 2000US-0249218.
PR 17-NOV-2000; 2000US-0249244.
PR 17-NOV-2000; 2000US-0249245.
PR 17-NOV-2000; 2000US-0249265.
PR 17-NOV-2000; 2000US-0249297.
PR 17-NOV-2000; 2000US-0249299.
PR 17-NOV-2000; 2000US-0249300.
PR 01-DEC-2000; 2000US-0250160.
PR 01-DEC-2000; 2000US-0250391.
PR 05-DEC-2000; 2000US-0251030.
PR 05-DEC-2000; 2000US-0251988.
PR 05-DEC-2000; 2000US-0256719.
PR 06-DEC-2000; 2000US-0251479.
PR 08-DEC-2000; 2000US-0251856.
PR 08-DEC-2000; 2000US-0251868.
PR 08-DEC-2000; 2000US-0251869.
PR 08-DEC-2000; 2000US-0251989.
PR 08-DEC-2000; 2000US-0251990.
PR 11-DEC-2000; 2000US-0254097.
PR 05-JAN-2001; 2001US-0259678.
XX
XX
PA (HUMA-) HUMAN GENOME SCI INC.
PI Rosen CA, Barash SC, Ruben SM;
XX
XX WPI; 2001-565190/53.
DR N-PSDB; ABK41708.
XX
PT Nucleic acid encoding novel connective tissue associated polypeptides,
PT used in diagnosing, preventing, treating or ameliorating a disorder
PT such as cancer or rheumatoid arthritis -
XX
XX Claim 11; SEQ ID No 595; 673pp; English.
PS The present invention relates to the isolation of novel human
XX connective tissue related polypeptides and the polynucleotide
XX (cDNA and genomic) sequences encoding them. The sequences of the
XX invention are useful in the diagnosis, treatment, prevention and/or
XX prognosis of diseases associated with connective tissue(s), including
XX cancer. The polynucleotide sequences of the invention are also useful
XX in gene therapy. AAU86435-AAU86923 represent the novel human connective
XX tissue related polypeptides.
CC Note: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 125 AA;
Query Match 24.7%; Score 572; DB 22; Length 125;


```
Best Local Similarity 94.7%; Pred. No. 1.6e-58;
Matches 108; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 312 LISVTILYAGINFCWSALQRLADRLVDKQNGWGHMGLHYSVRLVENVIMVLVFKPFG 371
Db 12 LISVTILYAGINFCWSALQRLADRLVDKQNGWGHMGLHYSVRLVENVIMVLVFKPFG 71

QY 372 VKVLLNYCHSLALQLIILAYLISIDFMLLFFOYLHPLRSIFTHNVVDYLHCVCC 425
Db 72 VKVLLNYCHSLALQLIILAYLISIDFMLLFFOYLHPLRSIFTHNVVDYLHCVCC 125

RESULT 13
ID ABB22596 standard; Protein; 128 AA.
XX
AC ABB22596;
XX
DT 23-JAN-2002 (first entry)
XX
DE Protein #4595 encoded by probe for measuring heart cell gene expression.
XX
KW Human; gene expression; heart; microarray; vascular system;
KW cardiovascular disease; hypertension; cardiac arrhythmia;
KW congenital heart disease.
XX
OS Homo sapiens.
XX
PN WO200157274-A2.
XX
PD 09-AUG-2001.
XX
PF 30-JAN-2001; 2001WO-US00666.
XX
PR 04-FEB-2000; 2000US-0180312.
PR 26-MAY-2000; 2000US-0207456.
PR 30-JUN-2000; 2000US-0608408.
PR 03-AUG-2000; 2000US-0632366.
PR 21-SEP-2000; 2000US-0234687.
PR 27-SEP-2000; 2000US-0236359.
PR 04-OCT-2000; 2000GB-0024263.
XX
PA (MOLE-) MOLECULAR DYNAMICS INC.
XX
PI Penn SG, Hanzel DK, Chen W, Rank DR;
XX
WPI; 2001-488899/53.
XX
Single exon nucleic acid probes for analyzing gene expression in human hearts -
XX
Claim 15; SEQ ID NO 24366; 530pp; English.
XX
The present invention relates to single exon nucleic acid probes for measuring human gene expression in a sample derived from human heart (see AB21335-ABA1305). The present sequence is a protein encoded by one such probe. The probes may be used for predicting, measuring and displaying gene expression in samples derived from the human heart via microarrays. By measuring gene expression, the probes are useful for predicting, diagnosing, grading, staging, monitoring and prognosing diseases of the human heart and vascular system e.g. cardiovascular disease, hypertension, cardiac arrhythmias and congenital heart disease.
CC Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 128 AA;
Query Match 15.3%; Score 354; DB 22; Length 128;
Best Local Similarity 59.6%; Pred. No. 5.7e-33;
Matches 65; Conservative 23; Mismatches 21; Indels 0; Gaps 0;

QY 302 NFPSRGTVLVLISVTILYAGINFCWSALQRLADRLVDKQNGWGHMGLHYSVRLVENV 361
Db 2 NSNMVGTVMFLITLLYAAINFSCWSAVKQLSDDKIIDGRQWGHRIILHYSFQFLENV 61

RESULT 14
ID AAM58002 standard; Protein; 128 AA.
XX
AC AAM58002;
XX
DT 05-NOV-2001 (first entry)
XX
DE Human brain expressed single exon probe encoded protein SEQ ID NO: 30107.
XX
KW Human; brain expressed exon; gene expression analysis; probe;
KW microarray; Alzheimer's disease; multiple sclerosis; schizophrenia;
KW epilepsy; cancer.
XX
OS Homo sapiens.
XX
PN WO200157275-A2.
XX
PD 09-AUG-2001.
XX
PF 30-JAN-2001; 2001WO-US00667.
XX
PR 04-FEB-2000; 2000US-0180312.
PR 26-MAY-2000; 2000US-0207456.
PR 30-JUN-2000; 2000US-0608408.
PR 03-AUG-2000; 2000US-0632366.
PR 21-SEP-2000; 2000US-0234687.
PR 27-SEP-2000; 2000US-0236359.
PR 04-OCT-2000; 2000GB-0024263.
XX
PA (MOLE-) MOLECULAR DYNAMICS INC.
XX
PI Penn SG, Hanzel DK, Chen W, Rank DR;
XX
WPI; 2001-483446/52.
XX
Single exon nucleic acid probes for analyzing gene expression in human brains -
XX
Example 4; SEQ ID NO: 30107; 650pp + Sequence Listing; English.
XX
The present invention provides a number of single exon nucleic acid probes which are derived from genomic sequences expressed in the human brain. They can be used to measure gene expression in brain cell samples, which may enable the diagnosis and improved treatment of nervous system diseases such as Alzheimer's disease, multiple sclerosis, schizophrenia, epilepsy and cancers. The present sequence is a protein encoded by one of the probes of the invention.
XX
SQ Sequence 128 AA;
Query Match 15.3%; Score 354; DB 22; Length 128;
Best Local Similarity 59.6%; Pred. No. 5.7e-33;
Matches 65; Conservative 23; Mismatches 21; Indels 0; Gaps 0;

QY 302 NFPSRGTVLVLISVTILYAGINFCWSALQRLADRLVDKQNGWGHMGLHYSVRLVENV 361
Db 2 NSNMVGTVMFLITLLYAAINFSCWSAVKQLSDDKIIDGRQWGHRIILHYSFQFLENV 61

RESULT 15
ID ABB22596 standard; Protein; 128 AA.
XX
AC ABB22596;
XX
DT 23-JAN-2002 (first entry)
XX
DE Protein #4595 encoded by probe for measuring heart cell gene expression.
XX
KW Human; gene expression; heart; microarray; vascular system;
KW cardiovascular disease; hypertension; cardiac arrhythmia;
KW congenital heart disease.
XX
OS Homo sapiens.
XX
PN WO200157274-A2.
XX
PD 09-AUG-2001.
XX
PF 30-JAN-2001; 2001WO-US00666.
XX
PR 04-FEB-2000; 2000US-0180312.
PR 26-MAY-2000; 2000US-0207456.
PR 30-JUN-2000; 2000US-0608408.
PR 03-AUG-2000; 2000US-0632366.
PR 21-SEP-2000; 2000US-0234687.
PR 27-SEP-2000; 2000US-0236359.
PR 04-OCT-2000; 2000GB-0024263.
XX
PA (MOLE-) MOLECULAR DYNAMICS INC.
XX
PI Penn SG, Hanzel DK, Chen W, Rank DR;
XX
WPI; 2001-488899/53.
XX
Single exon nucleic acid probes for analyzing gene expression in human hearts -
XX
Claim 15; SEQ ID NO 24366; 530pp; English.
XX
The present invention relates to single exon nucleic acid probes for measuring human gene expression in a sample derived from human heart (see AB21335-ABA1305). The present sequence is a protein encoded by one such probe. The probes may be used for predicting, measuring and displaying gene expression in samples derived from the human heart via microarrays. By measuring gene expression, the probes are useful for predicting, diagnosing, grading, staging, monitoring and prognosing diseases of the human heart and vascular system e.g. cardiovascular disease, hypertension, cardiac arrhythmias and congenital heart disease.
CC Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 128 AA;
Query Match 15.3%; Score 354; DB 22; Length 128;
Best Local Similarity 59.6%; Pred. No. 5.7e-33;
Matches 65; Conservative 23; Mismatches 21; Indels 0; Gaps 0;

QY 302 NFPSRGTVLVLISVTILYAGINFCWSALQRLADRLVDKQNGWGHMGLHYSVRLVENV 361
Db 2 NSNMVGTVMFLITLLYAAINFSCWSAVKQLSDDKIIDGRQWGHRIILHYSFQFLENV 61
```

ABB29870
ID ABB29870 standard; Peptide; 86 AA.

AC ABB29870;
XX
XX
DT 01-FEB-2002 (first entry)
XX
XX Peptide #2521 encoded by breast cell single exon nucleic acid
DE
XX Human; microarray; single exon probe; gene expression; breast;
KW

OS	Homo sapiens.
XX	
PN	WO200157271-A2.
XX	
PD	09-AUG-2001.
XX	
PP	30-JAN-2001; 2001WO-US00662.
XX	
PR	04-FEB-2000; 2000US-0180312.
PR	26-MAY-2000; 2000US-0207456.
PR	30-JUN-2000; 2000US-0608408.
PR	03-AUG-2000; 2000US-0632366.
PR	21-SEP-2000; 2000US-0234687.
PR	27-SEP-2000; 2000US-0236359.
PR	04-OCT-2000; 2000GB-0024263.

PA (MOLE-) MOLECULAR DYNAMICS INC.
XX
XX
PI Penn SG, Hanzel DK, Chen W, Rank DR;
XX
XX WPI; 2001-496933/54.
XX
XX New spatially-addressable set of single exon nucleic acid probes
PT useful for measuring gene expression in sample derived from human
PT breast, comprises number of single exon nucleic acid probes -
XX
XX Claim 27; SEQ ID NO 12838; 327pp + sequence listing; English.
PS

The invention relates to a spatially-addressable set of single exon nucleic acid probes for measuring gene expression in a sample derived from human breast and Br 474 cells. The method involves contacting the probes with a collection of detectably labelled nucleic acids derived from mRNA of human breast, and then measuring the label bound to each probe of the microarray. The probes are useful for verifying the expression of regions of genomic DNA predicted to encode proteins. They are useful for gene discovery, and for determining predisposition and/or prognosing breast disease. Gene expression analysis is useful for assessing the toxicity of chemical agents on cells. The microarray of this invention presents a far greater diversity of probes for measuring gene expression, with far less bias than expressed sequence tag microarrays. The method is suitable for rapid production of functional information from genomic sequence. The present sequence is a peptide encoded by a single exon nucleic acid probe of the invention.

Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WFO at ftp.wipo.int/pub/published_pct_sequences

[illegible]